

Title (en)

A GRADIENT WELD STUD AND METHOD OF PREPARATION

Title (de)

GRADIENTENSCHWEISSBOLZEN UND VERFAHREN ZUR HERSTELLUNG

Title (fr)

GOUJON DE SOUDAGE GRADUEL ET PROCÉDÉ DE PRÉPARATION

Publication

**EP 2780127 A4 20150930 (EN)**

Application

**EP 12849649 A 20121114**

Priority

- SE 1151094 A 20111118
- SE 2012051250 W 20121114

Abstract (en)

[origin: WO2013074028A1] A weld stud adapted to be welded against a substrate. The weld stud (1;10;21;31;41) comprising: a first (I), second (II) and third (III) portion. The first portion comprises a first material M1, and the second portion comprises a second material M2, weldable to the substrate (2). The third portion comprises at least one of: a material being weldable to the substrate, and a flux material adapted to facilitate the welding of the second material M2 to the substrate, wherein the weld stud comprises a length axis (LA) running through said first, second and third portion, and wherein the third portion comprises a cross section (B-B) perpendicular to the length axis having a smaller area (a2) than the average cross-section area (a1) of the first and second portions perpendicular to the length axis. The first material M1 and second materials M2 are joined with a gradual transition (5), the first material M1 is not weldable to the substrate, and the second material M2 is weldable to the substrate, and the first and second portions comprises a sintered gradual transition region comprising a mix of the first M1 and the second M2 materials.

IPC 8 full level

**B22F 7/02** (2006.01); **B22F 7/06** (2006.01); **B23K 9/20** (2006.01); **B23K 35/02** (2006.01)

CPC (source: EP SE)

**B22F 3/105** (2013.01 - EP); **B22F 7/02** (2013.01 - SE); **B22F 7/06** (2013.01 - EP SE); **B23K 9/20** (2013.01 - SE); **B23K 9/207** (2013.01 - EP); **B23K 35/0288** (2013.01 - EP SE); **B23K 35/30** (2013.01 - EP); **B23K 35/3093** (2013.01 - EP); **B23K 35/322** (2013.01 - EP); **B23K 35/325** (2013.01 - EP); **C04B 35/645** (2013.01 - EP); **C04B 37/021** (2013.01 - EP); **C04B 37/026** (2013.01 - EP); **B22F 2998/10** (2013.01 - EP); **B22F 2999/00** (2013.01 - EP); **B23K 2103/05** (2018.07 - EP); **B23K 2103/08** (2018.07 - EP); **B23K 2103/10** (2018.07 - EP); **B23K 2103/14** (2018.07 - EP); **B23K 2103/18** (2018.07 - EP); **B23K 2103/26** (2018.07 - EP); **B23K 2103/52** (2018.07 - EP); **C04B 2235/6562** (2013.01 - EP); **C04B 2235/666** (2013.01 - EP); **C04B 2237/123** (2013.01 - EP); **C04B 2237/343** (2013.01 - EP); **C04B 2237/348** (2013.01 - EP); **C04B 2237/401** (2013.01 - EP); **C04B 2237/406** (2013.01 - EP); **C04B 2237/58** (2013.01 - EP); **C04B 2237/76** (2013.01 - EP); **C04B 2237/80** (2013.01 - EP)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2013074028 A1 20130523**; EP 2780127 A1 20140924; EP 2780127 A4 20150930; SE 1151094 A1 20130519; SE 536766 C2 20140722

DOCDB simple family (application)

**SE 2012051250 W 20121114**; EP 12849649 A 20121114; SE 1151094 A 20111118